

GENERAL REFEREE REPORTS: SUBCOMMITTEE C

Report on Meat and Meat Products

By H. R. COOK (Technical Services Division, Consumer and Marketing Service,
U.S. Department of Agriculture, Washington, D.C. 20250)

It seems that we have not accomplished the goals which we had hoped for in meat and meat products during the past year. This, no doubt, was due, in part, to a change in General Referee and inability to fill all Associate Referee positions.

Last year Jon McNeal was appointed Associate Referee on Automated Methods. The two methods he reported this year seem to be about ready for collaborative study, if enough collaborators can be found. These systems are not now used widely in the analysis of meat and meat products.

The Associate Referee on Coloring Matter and Blood in Chopped Meat, Detection of Added, has been active during the past year. However, he has no report for this year.

The Associate Referee for Identification of Meats, Chemical Tests, has been working on a method which will identify pork in cooked comminuted meats. A small collaborative study indicated that the method has promise but it needs further study.

As evidenced by the 1969 Associate Referee's report, considerable progress has been made on the serological determination of animal species. A collaborative study is planned for the near future.

The Associate Referee on Lactose is evaluating two procedures for separating sugars in meat; a specific enzyme assay and a selective solubility one. Each method will be studied further.

The Associate Referee on Nitrates and Nitrites is

working on a method for determining each when both are present in mixtures. This method involves the reduction of the nitrates to nitrites which can then be analyzed by an official method.

The Associate Referee on Pesticides has reported on the partial completion of a collaborative study. This multiple detection method will be evaluated further.

Little work has been done on the determination of sodium caseinate in meats. The Associate Referee has recommended the evaluation of an electrophoretic procedure.

The Associate Referee on Smoke Residues in Meat and Smoke Flavorings has been handicapped by a shortage of equipment. This was corrected recently and work will be accelerated in this area.

To date, there is no Associate Referee on Starch in Meat Products. Efforts will be made to fill this position, since the topic is needed.

Recommendations

The recommendations of the Referee are those given in the report of Subcommittee C; see *JAOAC* 53, 386 (1970).

Report on Microchemical Methods

By C. L. OGG (Eastern Utilization Research and Development Division, Agricultural Research Service,
U.S. Department of Agriculture, 600 East Mermaid Lane, Philadelphia, Pa. 19118)

The Associate Referee on Molecular Weight has been studying the possible extension of the present first action procedure, *JAOAC* 51, 1231-1236 (1968), so that molecular weights up to 20,000 can be determined. A collaborative study of the method is planned for the coming year. It is hoped that study of the oxygen flask combustion method for halogens can be resumed next year.

The study of the oxygen flask method for group analysis of chlorine, bromine, and iodine should be continued and a study of the oxygen flask method for sulfur should be initiated.

The official final action gravimetric catalytic combustion method for sulfur, 38.035, should be declared immediate surplus by suspension of the rules.

Recommendations

The recommendations of the Referee are those given in the report of Subcommittee C; see *JAOAC* 53, 386 (1970).